

IN THE ABSTRACT

Please amend the Abstract as follows:

A noise margin self-diagnostic receiver circuit has been developed. The self-diagnostic circuit includes one comparator for comparing the signal voltage to a high reference voltage, a second comparator for comparing the signal voltage to a low reference voltage, and a logic circuit that activates an alarm if a noise error is detected. The circuit analyzes the data from the comparators and determines if a noise error has occurred dependent on being clocked by one or both of an output from the comparator comparing the signal voltage to the high reference voltage and an output from the comparator comparing the signal voltage to the low reference voltage.